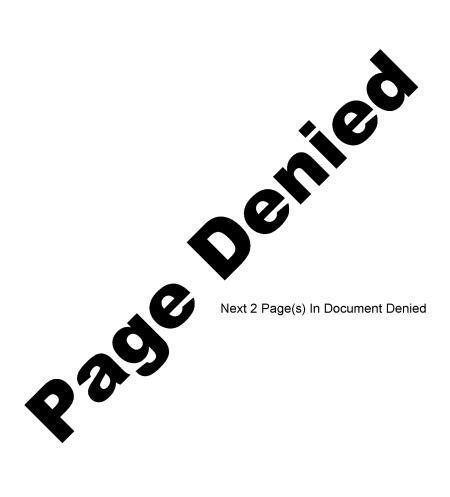
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SECRET 25X1 3. In early 1955, Bipl. Phys. Gerhard Eichhoff completed the development of a spectrograph for ultra-soft X-rays in the wave-length region 10 to 100 25X1 angstrom. 25X1 his development is for the time being not intended for economic-industrial use but serves for the structure analysis purposes of the Institute. In late 1954, Schnuerer started the development of an X-ray monochromator. The preparation of the designs lasted until early July 1955. Designing of the model was completed by that time and the actual construction work is to begin shortly. The purpose of the device is for structure investigations with the aid of X-rays of defined wave length. The device is to work on the basis of the monochromator-reflection principle: X-radiation falls upon a crystal (presumably quartz) which is bent spherically and the X-rays are reflected separately according to their different wave lengths. It is expected that the building of the device will take a year and that initial tests and necessary improvements will take about six more months. 5. Thiel is working on photo-current changes caused in CdS cells by infra-red light radiation applied in addition to normal light or X-ray radiation of given wave lengths (Ultrarotausleuchtung). Previously he was engaged, with Dipl. Phys. Rainz Karl Diedrich of the Electronics Department, in structure investigations of selenium crystals and selenium layers. 6. Schweinberger (fnu) was with Simon's department until late 1954. Be was mainly engaged in X-ray structure investigation of CdS crystals under Simon's direct supervision. When he failed to pass his examination in late 1954, he was dismissed from the Institute. 7. Kessler (fnu) worked in Simon's department until late 1954, 25X1 he completed a small Van de Greaf generator with maximum output of 500 KV. Although the Institute reports on this development repeatedly mentioned the possibility of its being used as a model for the development of higher output generator for the Academy Institute in Micrsdorf, the small generator built by Kessler never served this purpose and was never seriously intended for it. Kessler's generator is

While every research project undertaken in East Germany is ultimately supposed to serve production purposes,4 it may be stated that the work of the Structure Research Department of the Berlin-Buch Institute has been, and is, mainly concerned with basic research problems. This is true, except that the X=ray dosimetry research program was undertaken with 25X1 view to basic research and to its application in electrotherapy.

still in the Institute, but has not been used since Kessler's departure.

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